

Exploring the Extreme			
2005 Mathematics			
Model Content Standards			
Colorado Mathematics			
Grades K-4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	CO	MA.K-4.1.3	use numbers to count, to measure, to label, and to indicate location;
Finding the Center of Gravity Using Rulers	CO	MA.K-4.5.3	demonstrate the process of measuring and explain the concepts related to units of measurement;
Finding the Center of Gravity Using Rulers	CO	MA.K-4.5.4	use the approximate measures of familiar objects (for example, the width of your finger, the temperature of a room, the weight of a gallon of milk) to develop a sense of measurement; and
Finding the Center of Gravity Using Plumb Lines	CO	MA.K-4.1.3	use numbers to count, to measure, to label, and to indicate location;
Finding the Center of Gravity Using Plumb Lines	CO	MA.K-4.5.3	demonstrate the process of measuring and explain the concepts related to units of measurement;
Finding the Center of Gravity Using Plumb Lines	CO	MA.K-4.5.4	use the approximate measures of familiar objects (for example, the width of your finger, the temperature of a room, the weight of a gallon of milk) to develop a sense of measurement; and
Changing the Center of Gravity Using Moment Arms	CO	MA.K-4.1.3	use numbers to count, to measure, to label, and to indicate location;
Changing the Center of Gravity Using Moment Arms	CO	MA.K-4.5.3	demonstrate the process of measuring and explain the concepts related to units of measurement;
Changing the Center of Gravity Using Moment Arms	CO	MA.K-4.5.4	use the approximate measures of familiar objects (for example, the width of your finger, the temperature of a room, the weight of a gallon of milk) to develop a sense of measurement; and
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Model Content Standards			
Colorado Mathematics			
Grades 5-8			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	CO	MA.5-8.5.2	estimate, make, and use direct and indirect measurements to describe and make comparisons;
Center of Gravity, Pitch, Yaw	CO	MA.5-8.5.4	develop and use formulas and procedures to solve problems involving measurement;

Center of Gravity, Pitch, Yaw	CO	MA.5-8.5.6	select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.
Center of Gravity, Pitch, Yaw	CO	MA.5-8.6.4	select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem-solving and determine whether the results are reasonable.
Fuel Efficiency	CO	MA.5-8.2.1	represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation;
Fuel Efficiency	CO	MA.5-8.5.1	estimate, use, and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison;
Fuel Efficiency	CO	MA.5-8.5.2	estimate, make, and use direct and indirect measurements to describe and make comparisons;
Fuel Efficiency	CO	MA.5-8.5.3	read and interpret various scales including those based on number lines, graphs, and maps;
Fuel Efficiency	CO	MA.5-8.5.4	develop and use formulas and procedures to solve problems involving measurement;